Question Bank.  
Core Java:

1)what is jdk ,jvm , jre ? explain in detail.

2)what is WORA principle in java ?

3)explain JIT compiler.

4)why is java platform independent but OS dependent?

5)Explain class, Object with real life analogy.

6)What are class loaders and types in java?

7)Explain the OOPS concepts in java.

8) difference between abstraction and encapsulation.

9)Explain keywords: static,final, finally, finalize.

10)what are static blocks in java ?

11)Constructor overloading and Constructor injection.

12)Types of constructor.

13)Constructor with different access modifiers.(can a constructor be final ?)

14)Access modifiers and their order from least to most secure.

15)what are packages in java ?

16)Abstract class vs. Interface in java (till java 1.7)

17)default and static methods in Java Interface.

18)backward compatibility in java.

19)Functional Interface .

20)Creating instance(?) of functional interface with the anonymous inner class in java.

21)creating instance of abstract class with anonymous inner class in java.

22)Partial and full abstraction.

23)This vs Super constructor call.

24)Various aspects of runtime and compile time polymorphism.

25)Polymorphic object ,uses and significance.

26)does finally block always executes ?

27)Explain Exception hierarchy in java.

28)Exception vs Error.

29)Explain the concept of propagation of exception in java.

30)Throw vs. Throws.

31)Custom Exceptions in Java.(with default messages and custom messages.)

32)Explain the hierarchy of collection in Java.

33)Arraylist vs.Linkedlist and performance issues.

34)ArrayList vs Vector.

35)Internal Implementation of Linkedlist and ArrayList.

36)Contract of .equals.

37).hashcode and .equals and it’s significance in collection.

38) Treeset vs. Treemap()

39)natural ordering and custom Ordering.(Comparable vs. Comparator)

40)what’s hashing algorithm ?

41)hash collison and hash buckets.

42)What is multithreading?

43)what is thread lifecycle ?

44)What is deep and shallow copy?

45) write the code for deep copy using: Clonebale Interface and Copy Constructor.

46)what is synchronized keyword?

47) explain object/instance level intrinsic locks.

48)explain class level locks.

49)Difference between synchronized method and synchronized block.

When to use what and what is the difference between them?

50)What is thread lifecycle and what are the different ways to initialize/Create the Thread?

51)what is mutual synchronization and exclusive synchronization?

52)how does a static keyword behaves in the multithreading ?

To be continued….